

Hardener WR™

IMPROVES THE WATER RESISTANCE AND DURABILITY OF QLT™ AND OTHER TEXTILE EMULSIONS; TREATED STENCILS CAN BE REMOVED

Hardener WR is a companion product to **QLT™** direct emulsion (when used with added diazo to provide water resistance), and is used after stencil processing to improve **QLT™**'s water resistance, durability, and compatibility with discharge inks. Unlike other stencil hardeners that render stencils permanent, stencils treated with **Hardener WR** can be removed easily. **Hardener WR** can also be used with diazo-dual cure (water resistant) emulsions and SBQ textile emulsions.

INSTRUCTIONS

Step 1: APPLY HARDENER WR

Make a stencil with **QLT** direct emulsion to which diazo has been added. (**Hardener WR** can also be used with diazo sensitized, diazo-dual cure (water resistant) emulsions, and SBQ textile emulsions.) The processed (exposed, washed out) stencil should be dry or slightly damp. At this point, for best working safety put on gloves, goggles, and protective clothing. Soak a sponge or rag with **Hardener WR** and apply it to both sides of the screen.

Step 2: ALLOW HARDENER WR TO AIR DRY INITIALLY

Wait several minutes so that the **Hardener WR** can be absorbed by the emulsion and evaporated from the image (open) areas of the stencil.

Step 3: CURE THE HARDENER WR-TREATED STENCIL

Cure the **Hardener WR**-treated stencil using one of the following options:

Option 1: If a drying oven is not available, **Hardener WR** can still be cured by allowing sufficient dwell time for full curing. Allow the treated screen to dry at room temperature (approximately 68° F. or 20° C.) for 24 hours.

Option 2: Heat cure the **Hardener WR**-treated stencil for one hour in a drying oven set at 100°F. or 40°C.

Step 4: IF NECESSARY, REMOVE HARDENER WR RESIDUE FROM IMAGE AREAS OF THE STENCIL

Any **Hardener WR** residue that remains in the open areas of the stencil generally opens up after a few initial prints; the residue can also be removed with solvents.

CAUTION

Avoid contact with skin and eyes. Wear gloves, goggles, and protective clothing.

PRODUCT DATA

Flash point:	Not applicable
Color:	Clear
VOC:	Not applicable
TLV:	Not applicable
HMIS ratings:	Health – 1 Flammability – 0 Reactivity – 0
Shelf life:	1 year at 68° F. (20° C.)
Disposal:	Hardener WR can generally be washed down drains and is biodegradable in adapted waste-water treatment facilities, but this should be verified by a review of the Material Safety Data Sheet with local authorities.

FORMATS

Hardener WR is available in quart (946 cc.), U.S. gallon (3.78 lt.), 5 U.S. gallon (18.92 lt.), and 50 U.S. gallon (189.25 lit.) units. Quart units are packaged 12 per carton; U.S. gallon units are packaged 4 per carton; 5 and 50 U.S. gallon units are packaged individually.

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